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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Yuka YAMAGUCHI  
Title: CLEANING DEVICE AND  
IMAGE FORMING APPARATUS  
Appl. No.: 10/679,301  
Filing Date: 10/07/2003  
Examiner: W. J. Royer  
Art Unit: 2852

**TERMINAL DISCLAIMER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Your Petitioners, KABUSHIKI KAISHA TOSHIBA, having its principal place of business at 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan, and TOSHIBA TEC KABUSHIKI KAISHA, having its principal place of business at 1-1, Kanda Nishiki-Cho, Chiyoda-ku, Tokyo, 101-8442 Japan, represent that they are the owners of the entire right, title, and interest in and to the above identified patent application, U.S. Patent Application Serial No. 10/679,301, filed 10/07/2003, which is a continuation of U.S. Patent Application Serial No. 10/028,445, filed 12/28/2001 by virtue of an Assignment filed and recorded on December 28, 2001, on Reel/Frame 012419/0753, in the United States Patent and Trademark Office, a copy of which is attached hereto as APPENDIX A, and an Assignment filed and recorded on May 30, 2003, in the United States Patent and Trademark Office, a copy of which is attached hereto as APPENDIX B. Further, your Petitioners represent that they are the owners of U.S. Patent No. 6,661,983, which issued on U.S. Patent Application No. 10/028,445, filed December 28, 2001, by virtue of the Assignments attached as APPENDICES A and B.

07/13/2004 FFANAI2 00000019 10679301

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Your Petitioners hereby disclaim the terminal part of the term of any patent granted on the above identified patent application which would extend beyond the full statutory term, as shortened by any terminal disclaimer, of U.S. Patent 6,661,983, and hereby agree that any patent so granted on the above identified patent application shall be enforceable only for and during such period that the legal title to U.S. Patent 6,661,983 shall be the same as the legal title to any patent granted on the above identified patent application, this agreement to run with any patent granted on the above identified patent application and to be binding upon the grantee, its successors or assigns.

In making the above disclaimer, Petitioners do not disclaim any terminal part of any patent granted on the above identified patent application, prior to the full statutory term of U.S. Patent 6,661,983 as defined in 35 U.S.C. §§154-156 and 173, in the event that U.S. Patent 6,661,983 expires for failure to pay a maintenance fee, is held unenforceable or is found invalid in a final judgment by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR §1.321(a), has all claims canceled by a reexamination certificate or as a result of an interference proceeding, or is otherwise not deemed to provide the rights conveyed by 35 USC §154, prior to the full statutory term of U.S. Patent 6,661,983 as defined in 35 USC §§154-156 and 173, except for the separation of legal title stated above. Further, Petitioners do not disclaim any terminal part of a patent granted on the above identified patent application that would extend beyond the present termination of U.S. Patent 6,661,983, in the event that such present term is extended by virtue of compliance with the conditions for term extension of any present or future patent term extension provisions of the patent law, including but not limited to 35 U.S.C. §§155, 155A or 156, and without waiving Petitioners' rights to extend the term of a patent granted on the above identified patent application to the extent provided by law. Petitioners do not disclaim any period associated with any right of extension for the present application, Serial No. 10/679,301.

The undersigned, being the Attorney of Record for the above identified patent application, and duly authorized to act on behalf of Petitioners, certifies that he has reviewed the Assignments attached as APPENDICES A and B , and to the best of his knowledge and belief, legal title to the above identified patent application and U.S. Patent 6,661,983 rests

with Petitioners, KABUSHIKI KAISHA TOSHIBA and TOSHIBA TEC KABUSHIKI KAISHA.

The undersigned declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified application or any patent issuing therefrom.

Date

*July 9 2001*

FOLEY & LARDNER LLP  
Customer Number: 22428  
Telephone: (202) 672-5414  
Facsimile: (202) 672-5399

Respectfully submitted,

*[Signature]*  
25288

By

Richard L. Schwaab  
Attorney for Applicant  
Registration No. 25,479



FEBRUARY 26, 2002

PTAS

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov

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RICHARD L. SCHWAAB  
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3000 K STREET, N.W.. SUITE 500  
WASHINGTON, D.C. 20007-5143



\*101937442A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/28/2001

REEL/FRAME: 012419/0753  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
YAMAGUCHI, YUKA

DOC DATE: 12/18/2001

ASSIGNEE:  
TOSHIBA TEC KABUSHIKI KAISHA  
1-1, KANDA NISHIKI-CHO, CHIYOD-KU  
TOKYO, JAPAN

SERIAL NUMBER: 10028445  
PATENT NUMBER:

FILING DATE: 12/28/2001  
ISSUE DATE:

SHARON LATIMER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

01-09-2002

Atty. Dkt. No. 065905-0244

FORM PTO-1595 (modified)

(Rev 6-93)

RECC



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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

101937442

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Yuka YAMAGUCHI

2. Name and address of receiving party(ies):

TOSHIBA TEC KABUSHIKI KAISHA

1-1, Kanda Nishiki-cho, Chiyoda-  
Tokyo, Japan10/028445  
12/28/01

12/28/01

Additional conveying party(ies) NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

December 18, 2001

Additional name(s) &amp; address(es) attached? NO

4. Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is: December 18, 2001

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Richard L. Schwaab  
FOLEY & LARDNER  
Washington Harbour  
3000 K Street, N.W., Suite 500  
Washington, D.C. 20007-5143

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Check Enclosed

Charge to deposit account

8. Deposit account number: 19-0741

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9. Statement and signature:

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.*

Richard L. Schwaab

Name of person signing

Signature

December 28, 2001

Date

Total number of pages including cover sheet, attachments, and document: 2

12/31/2001 HMARZ11 00000074 10028445

04 FC:581

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# ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and  
address of  
assignee

TOSHIBA TEC KABUSHIKI KAISHA  
1-1, Kanda Nishiki-cho, Chiyoda-ku, Tokyo, Japan

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to this invention relating to

title of  
invention

CLEANING DEVICE AND IMAGE FORMING APPARATUS

as set forth in this United States Patent Application

check one

☒ executed concurrently herewith

☐ executed on \_\_\_\_\_

☐ Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of FOLEY & LARDNER the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAMES AND SIGNATURES OF INVENTORS		
Name: Yuka YAMAGUCHI	Signature: <i>Yuka Yamaguchi</i>	Date: Dec. 18, 2001
Name:	Signature:	Date:
Name:	Signature:	Date:
Name:	Signature:	Date:
NAMES AND SIGNATURES OF WITNESSES		
Name:	Signature:	Date:
Name:	Signature:	Date:

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

PATENT ASSIGNMENT

WHEREAS TOSHIBA TEC KABUSHIKI KAISHA, of 1-1, Kanda Nishiki-cho, Chiyoda-ku, Tokyo, 101-8442, Japan, (hereinafter "Assignor") is the owner of the United States Patent Applications listed on ATTACHMENT A, and the inventions set forth therein, as shown by the records of the United States Patent and Trademark Office (by virtue of Assignments being duly recorded in the file of each of the Patent Applications).

WHEREAS KABUSHIKI KAISHA TOSHIBA, of 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan, (hereinafter "Co-Assignee") is desirous of acquiring part of the right, title and interest in and to said inventions for the United States of America, and in and to said United States Patent Applications.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Co-Assignee, Assignor has sold, assigned, transferred and set over, and by these presence hereby sells, assigns, transfers and sets over to Co-Assignee a one-half ownership right, title and interest in and to said inventions for the United States of America, and in and to said applications for Letters Patent listed above, including any and all divisional, continuation, continuation-in-part, reissues or extensions thereof, to be jointly held and enjoyed by Co-Assignee and Assignor for their use as the same would have been held and enjoyed by Assignor alone had this assignment not been made; the Commissioner of Patents and Trademarks of the United States of America is hereby authorized to transfer the portion of the right, title and interest indicated to said applications to said Co-Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the Assignor, but also that such assigned rights are not encumbered by any grant, license, or other right theretofore given; Assignor hereby undertakes to execute and deliver to Co-Assignee upon request all lawful documents which may be requested by Co-Assignee, and to furnish Co-Assignee with all facts relating to said invention as may be requested.

The undersigned hereby grants the firm of FOLEY & LARDNER, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

TOSHIBA TEC KABUSHIKI KAISHA

Date: May 30, 2003

By: Toshio Hokimoto

Name: Toshio Hokimoto

Title: Senior Manager

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_



**ATTACHMENT A**  
(Page 1 of 2)

PATENT APPLICATION SERIAL NO.

10/196,555	09/506,325	09/587,277	09/749,549	09/794,630	09/799,023	09/948,667
10/143,905	09/506,722	09/537,728	09/671,152	09/749,550	09/848,621	09/946,620
09/527,465	09/506,326	09/559,919	09/811,765	09/846,023	09/956,196	09/955,292
09/506,392	09/664,071	09/613,868	09/708,438	09/845,522	09/909,860	10/126,897
09/501,213	09/662,817	09/661,406	09/721,742	09/773,530	10/084,636	10/126,882
09/506,397	09/641,338	09/670,621	09/722,700	09/750,045	09/942,699	09/955,186
09/502,022	09/668,389	09/663,690	09/671,153	09/791,768	09/906,092	09/984,765
09/497,230	09/641,337	09/664,321	09/717,233	10/131,207	09/943,067	09/955,043
09/522,898	09/671,576	09/667,102	09/663,688	09/813,287	09/835,851	09/906,093
09/472,817	09/652,260	09/648,636	09/665,173	09/860,574	09/965,797	09/876,082
09/522,897	09/667,552	09/661,789	10/025,568	09/843,844	09/921,696	09/922,705
09/645,589	09/665,177	09/668,345	09/845,259	09/933,036	10/020,098	09/922,734
09/641,339	09/663,687	09/618,095	09/812,953	09/814,690	09/895,877	10/014,578
09/594,496	09/621,459	09/649,992	09/761,777	09/773,533	09/922,733	09/874,263
09/589,356	09/996,573	09/725,686	09/845,258	09/784,002	09/922,703	09/955,088
09/589,355	09/579,456	09/669,741	09/699,375	09/775,564	09/955,188	09/932,950
09/653,891	09/579,457	09/628,799	09/985,301	09/803,038	09/955,087	09/932,961
09/578,505	09/578,720	09/703,839	09/803,037	09/955,312	09/953,616	09/955,290

**ATTACHMENT A**  
(Page 2 of 2)

PATENT APPLICATION SERIAL NO.

09/921,703	10/012,358	10/032,615	10/150,079	10/028,445	10/096,904	10/227,288
09/921,697	09/973,043	10/073,894	10/268,698	10/118,373	10/177,101	10/216,357
09/955,090	09/989,685	10/003,256	10/140,290	10/024,345	10/177,071	10/213,063
09/984,772	09/978,784	10/024,394	10/022,548	10/022,699	10/207,107	10/234,387
09/984,761	10/189,005	10/006,623	10/284,124	10/068,901	10/206,942	10/206,359
09/921,702	09/955,291	10/025,769	10/029,300	10/143,909	10/210,093	10/254,783
09/970,990	10/006,131	10/208,872	10/228,923	10/059,208	10/200,214	10/254,784
09/942,698	10/084,093	10/017,594	10/025,962	10/061,198	10/210,094	10/228,968
09/964,634	09/997,290	10/022,803	10/140,291	10/055,015	10/202,832	10/224,357
10/093,966	10/022,857	10/028,446	10/235,667	10/051,373	10/163,600	10/237,630
10/043,141	10/021,504	10/006,618	10/054,953	10/053,561	10/284,167	10/230,146
09/964,633	10/020,158	10/046,971	10/022,802	10/134,488	10/283,141	10/213,062
09/984,786	10/036,527	10/055,402	10/032,616	09/998,413	10/180,322	10/246,743
09/964,635	10/036,526	09/988,012	10/055,003	10/147,999	10/197,887	10/284,262
09/972,908	10/047,035	10/026,429	10/054,990	10/227,444	10/200,215	10/254,564
09/975,983	10/023,858	10/026,721	10/026,720	10/077,891	10/230,136	10/254,877
10/003,257	10/126,618	10/025,788	10/198,177	10/096,903	10/154,970	10/319,503